

## EPS

## RPCM LOSS OF COMM

### ADVISORY

Advisory

①

RPCM XXXX X

Loss of Comm

1	RPCM Health
Node 1: EPS: RPCM XXXX X RPCM XXXX X	
Is Integration Counter Incrementing?	

Yes

2 Transient advisory  
message

No

3	Remote Terminal Reset
Node 1: C&DH: MDM N1-2 Primary NCS MDM N1-X 'Software Control'	
<ul style="list-style-type: none"> <li>• sel Transmit Mode Code</li> <li>• Locate group containing affected RPCM</li> </ul>	
N1RS1 A, N1RS1 B, N1RS1 C, N1RS2 A, N1RS2 B, N1RS2 C	
N13B A, N13B B, N13B C	
N14B A, N14B B, N14B C	

②

6	N1-1 commands
<ul style="list-style-type: none"> <li>• sel N1-1 MDM Xmt Mode Code Commands</li> </ul>	

②

5	N1-2 commands
<ul style="list-style-type: none"> <li>• sel N1-2 MDM Xmt Mode Code Commands</li> </ul>	

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4	Primary NCS command
<ul style="list-style-type: none"> <li>• sel Primary NCS Xmt Mode Code Commands</li> </ul>	

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7	Command Remote Terminal Template
<ul style="list-style-type: none"> <li>• Use RT Table to complete the Bus ID and RT Address Information.</li> <li>• <b>cmd</b> Reset_Remote_Terminal_Tmplt Bus ID = _____ RT Address = _____ <b>Execute</b></li> </ul>	

8	RPCM Health
Node 1: EPS: RPCM XXXX X RPCM XXXX X	
Is Integration Counter Incrementing?	

Yes

9 RT link to MDM  
dropped-out and was  
reestablished.

No

10	Reset RPCM Firmware
<ul style="list-style-type: none"> <li>• sel Firmware Detail</li> <li>• sel Commands</li> <li>• <b>cmd</b> Power_On_Reset_Arm <b>Execute</b></li> <li>• <b>cmd</b> Power_On_Reset <b>Execute</b></li> </ul>	

③

11

①

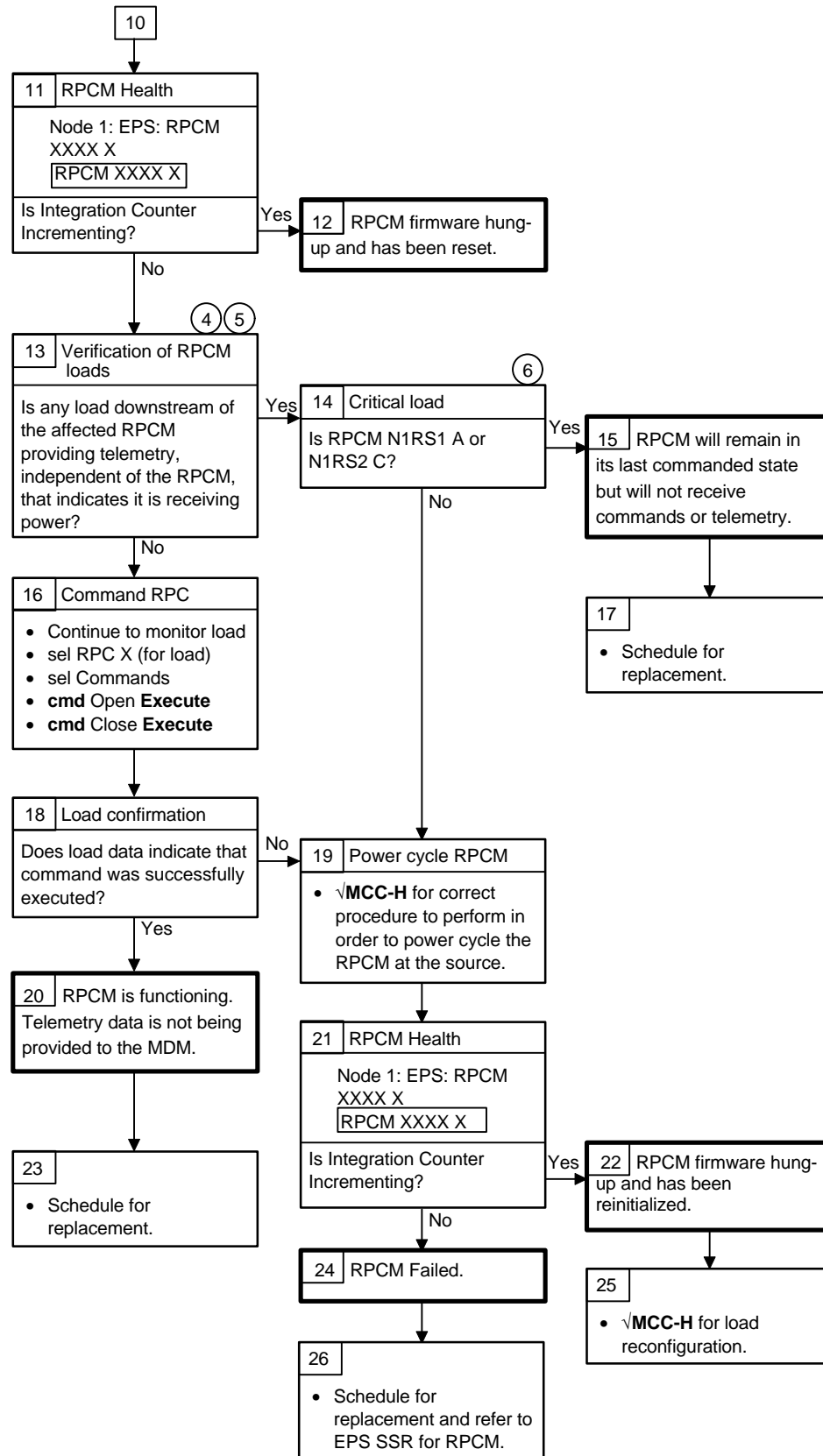
The driver for the  
RPCM Loss of  
Comm advisory in  
the NCS is a static  
RPCM Integration  
Counter.

②

Although there is a  
different path for  
each command type,  
the three command  
windows look the  
same. The only  
visible difference in  
the template  
windows is that the  
valid Bus ID for a  
given window is  
listed in the window.

③

The RPCM Power  
On Reset command  
will remove any  
previously  
established 4



④ Refer to Power Connectivity Table (SODF: Reference Data) for downstream loads.

⑤ Possible confirming power indications include: MDM Frame Counter, Shell Temperatures, and Lights.

⑥ RPCMs N1RS1 A and N1RS2 C provide power to the MDM N1-1 and MDM N1-2. Power cycling an RPCM with a known firmware problem may cause complete loss of the RPCM.

**EPS****RPCM LOSS OF COMM (Cont)**

## RPCM RT TABLE

RPCM	Bus Name	Bus ID	RT Address
N1RS1 A	UB EPS 14	2	20
N1RS1 B	UB EPS 14	2	19
N1RS1 C	UB EPS 14	2	18
N1RS2 A	UB EPS 23	3	20
N1RS2 B	UB EPS 23	3	19
N1RS2 C	UB EPS 23	3	18
N13B A	SYS LAB 2	11	20
N13B B	SYS LAB 2	11	19
N13B C	SYS LAB 2	11	18
N14B A	SYS LAB 1	11	20
N14B B	SYS LAB 1	11	19
N14B C	SYS LAB 1	11	18